



TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

STATE OF IOWA

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

October 27, 2015

Kooiker Brothers
3742 350th St.
Boyden, IA 51234

SUBJECT: Animal Feeding Operation (AFO) Compliance Inspection for Kooiker Brothers - Home,
Sioux County, Facility #59078

Dear Mr. Kooiker:

Attached is a copy of the report resulting from the Animal Feeding Operation (AFO) facility compliance inspection on August 28, 2015.

Your attention is directed to the requirements and recommendations portion of the report.

If you have any questions, or feel this report does not represent the conditions at your facility, please call me at 712-262-4177.

Sincerely,

Sheila Kenny, Environmental Specialist
sheila.kenny@dnr.iowa.gov
Field Services and Compliance Bureau

SK:lw

c: -Gene Tinker, AFO Coordinator, Des Moines
-Ken Hessenius, FO#3, AFO Enforcement Coordinator, Spencer, IA

enc: -AFO Facility Inspection Report
-Desktop Assessment Form
-Animal Feeding Operation (AFO) Regulatory Status Form
-MMP Inspection Form
-Photos of Site and Aerial Photos

ag15/84ko1027-ins.docx

IOWA DEPARTMENT OF NATURAL RESOURCES

AFO INSPECTION REPORT

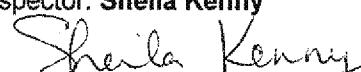
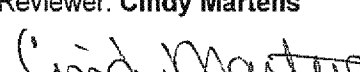
FACILITY DESCRIPTION

FACILITY LOCATION	Facility: Kooiker Brothers - Home			Facility ID#: 59078	
	Address: 3742 350th Street		City: Boyden	State: IA	Zip: 51234
	PLSS: Section 9, Capel Township (T96N, R44W), Sioux County				
OWNER	Name: Glen and Mark Kooiker				
	Address:		City:	State:	Zip:
ANIMAL HOUSING TYPE	<input type="checkbox"/> Confinement <input type="checkbox"/> Open Lot <input checked="" type="checkbox"/> Combined (Confinement & Open Lot)				
ANIMAL INFORMATION	Animal Type(s)	Capacity	Current Head	Number of Bldgs./Pens	
	Beef Cattle - Finishing	700	580	2	
	Grow-Finish Hogs	2000	1975	3	
	Date of Construction: 1995		Date of Expansion: 1998		

INSPECTION INFORMATION

INSPECTION DATE	This Inspection: 08/28/15 - 1pm		Last Inspection: 11/20/06
PERSONS INTERVIEWED	Name: Glen Kooiker		Title: Owner
	Name:		Title:
NEAREST WATERCOURSE	Stream Name: Unnamed Tributary to the West Branch Floyd River		
	Description of Flow Path: Northeast		

COMPLIANCE SUMMARY

OBSERVATIONS	Nutrient Management: <input type="checkbox"/> CNMP <input type="checkbox"/> NMP <input checked="" type="checkbox"/> MMP <input type="checkbox"/> Other <input type="checkbox"/> No formal plan		
	Manure Stockpiling: <input type="checkbox"/> In controlled area <input checked="" type="checkbox"/> In compliance with rules <input type="checkbox"/> Not applicable – direct haul <input checked="" type="checkbox"/> Stockpiling in an uncontrolled area	Mortality Management: <input checked="" type="checkbox"/> Rendering <input type="checkbox"/> Composting <input type="checkbox"/> Incineration <input type="checkbox"/> On-site burial <input type="checkbox"/> Landfill	Runoff from Feed Storage: <input type="checkbox"/> No outdoor feed storage area <input checked="" type="checkbox"/> Discharge from feedstock storage area is controlled <input type="checkbox"/> Feed storage is located in an uncontrolled area
	Clean Water Diverted: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Discharge to a Water of the U.S. via Manmade Conveyance: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Direct Animal Contact with Waters of the U.S.: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Adjacent Facilities (by same owner/operator): <input type="checkbox"/> Confinement <input type="checkbox"/> Open Lot <input checked="" type="checkbox"/> None		
	Evidence of Discharges: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	NPDES PERMIT STATUS The facility, as observed during the inspection, was a Medium AFO and did not need an NPDES permit. NPDES permit is required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
COMPLIANCE STATUS	This facility appeared to be in compliance with Iowa's environmental regulations at the time of the inspection. Actual conditions may vary over time with the operation and maintenance of the facility. Facility is in compliance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
AUTHENTICATION	Inspector: Sheila Kenny	Date: 10/23/15	Reviewer: Cindy Martens
			

IOWA DEPARTMENT OF NATURAL RESOURCES
AFO INSPECTION REPORT

FACILITY EVALUATION

BIOSECURITY

Prior to my inspection, I briefly discussed biosecurity with Mr. Kooiker. He stated that he does not have a specific biosecurity policy for this site; therefore, the approved DNR biosecurity policy was followed for this inspection.

This site is a combined facility with a capacity of 700 beef cattle in open lots and 2000 finisher hogs in confinement. No surface tile intakes were observed in the vicinity of this facility and there are no wells on site as all water for this facility is provided by rural water. Most of the clean water is naturally diverted around the feedlot. The nearest water source, an unnamed tributary to the West Branch Floyd River, is located approximately 165' east of this facility. See the attached aerial photos indicating key structures and drainage patterns for this facility.

CONFINEMENT BARNES AND MANURE STORAGE STRUCTURES

There are three hog confinement barns located on the southwest portion of this facility, which have a total capacity of 2000 finisher hogs. The largest barn has a 12' deep below building pit for manure storage. The smaller barn to the east has a shallow (2') pit with pull plugs which convey manure into the deep pit below the larger finisher barn. The small finisher barn to the north also has a shallow (2') pit with pull plugs. Manure from this barn drains into a small circular outdoor tank with a diameter of about 30' and a depth of about 8'. This outdoor tank is also pumped into the larger confinement pit about two times a year.

All three confinement barns appeared to be in good condition with no large cracks or deterioration noted. The below building pits and outdoor concrete tank appear to be structurally sound and have adequate capacity for storage of all manure produced at this site between periods of application. There was plenty of freeboard remaining in the outdoor concrete tank at the time of this inspection. Photographs were taken during this inspection to document the condition of the facility, and copies of these photos are included with this report.

In the unlikely event of a spill or release from the confinement barns at this site, manure would likely flow north along the edge of the facility and into the surrounding crop field. If a sufficient quantity was spilled, it would flow toward the creek, but an earthen berm along the creek would likely prevent a discharge. You are reminded to regularly inspect the barns and manure storage structures for overflows or discharges and make repairs as needed to ensure that all manure is properly contained between periods of land application.

FEEDLOT PENS AND CONTROL STRUCTURES

There are two open lot pens at this facility, each of which has concrete along the feed bunks. All runoff from the east pen flows east/northeast. An earthen berm was constructed along the east side of this facility and extends about ½ mile to the north along the creek. This berm serves as a settling and containment area and prevents open lot runoff from being discharged into the creek.

The west pen has concrete in the eastern portion along the feed bunks. Runoff from the concrete area flows to the east where some concrete slats and round bales are used to help settle solids from this flow. From there, this runoff flows through a grassy swale, and is prevented from discharging into the creek by the earthen berm. The runoff from the remainder of the west pen flows northeast through the grove and also flows into the grassy area adjacent to the containment berm. Despite the 2" rainfall event that occurred prior to this inspection, there was no evidence of a discharge to a water of the state. If sufficient rainfall occurs, runoff could potentially overflow the berm and enter the creek. Therefore, you are encouraged to conduct visual inspections of the facility perimeter and receiving stream following rainfall events to check for any possible discharges. You must properly manage all runoff to prevent a discharge to a water of the state or subsequent water quality violations. You should also consider developing a contingency plan to handle chronic or excessive rainfall events.

Frequent scraping of feedlot pens can greatly reduce the amount of manure discharged and can reduce the amount of water held on the feedlot surface after a rain event. This, in turn, can reduce the amount of soil softened and churned into the manure by hoof action, and can help prevent significant deterioration of the pen surface. Failing to scrape the pens frequently can result in large amounts of thick runoff from the pens.

IOWA DEPARTMENT OF NATURAL RESOURCES AFO INSPECTION REPORT

With a current capacity of 700 beef cattle and 2000 finisher hogs, this facility is considered a medium sized animal feeding operation (AFO). At this size, you are required to settle all solids from the runoff and prevent any water quality violations. In addition, you are reminded that you cannot discharge manure or process wastewater via a man-made conveyance (road ditch, tile intake, grass waterway, etc.), or this site may be designated as a Medium CAFO (concentrated animal feeding operation) which requires a National Pollutant Discharge Elimination System (NPDES) permit. You are also reminded that Iowa law requires that all confinement manure be contained between periods of application. As there was no evidence of a discharge to a water of the state at the time of this inspection, the current regulatory status of this facility was determined to be a medium animal feeding operation which is not required to obtain an NPDES permit. However, should there be any documented discharges or water quality violations from this facility, an NPDES permit may be required.

SITE LOCATION – ADJACENT FACILITIES

The Kooiker Brothers – West site (ID #67606) is located directly west of this facility. The nearest confinement barn at the Home site is approximately 950' away, but there is about 1325' of separation between the open feedlots at these two sites; therefore, they are currently considered separate facilities.

The Kooiker Brothers – East site (ID#65030) is located approximately 1950' east/northeast of this facility; therefore, it is also considered a separate facility.

PROCESS WASTEWATER AND MANURE HANDLING

All runoff from stockpiles, dead animal storage, and uncovered feed storage areas is considered process wastewater, and as such, must also be controlled. All feed for the hogs is stored in covered bulk bins and there was no spilled feed observed around the bins at the time of this inspection. Feed for the cattle is stored in a concrete bunker and a covered commodity shed located in the center of the facility. Except for the open end, the silage pile is covered by plastic to reduce runoff. Any runoff from the feed storage area would flow around the east side of the west pen and then north into the grassy area along the containment berm.

Any dead animals from this site are temporarily stored near a field entrance on the south side of 350th Street until picked up by a rendering service. Mr. Kooiker indicated that dead animals are typically picked up within one day after he contacts the rendering service, and there was no evidence of a discharge from this temporary storage area.

The Manure Management Plan (MMP) for this facility was developed by Jeff Koops with Farmers Cooperative Society in Sioux Center. This facility produces approximately 612,000 gallons of manure annually and all confinement hog manure is land applied each fall by a commercial manure service (Dan DeWit – Flatland Farm Inc., 1125CMS). The MMP currently includes 494 acres, which is sufficient ground for application of all manure produced at this site, but Mr. Kooiker stated that additional acres are available if needed.

Mr. Kooiker stated that the solids are removed from the settling areas in the spring or fall as weather permits. From fall through spring Mr. Kooiker indicated that the open lot manure is typically land applied using a 15-ton spreader immediately after removal from the feedlot. During the summer months, open lot manure from all three Kooiker Brothers sites is stockpiled in the field. At the time of this inspection, the stockpile was located on the top of a small hill in a field approximately 1½ miles east and ½ mile north of this feedlot. This stockpile location meets all of the required separation distances and there was no evidence of any discharge from the pile at the time of this inspection.

REQUIREMENTS AND RECOMMENDATIONS

Overall, this facility appears to be in compliance with all State of Iowa regulatory requirements. There are no requirements for this facility based on the date of the inspection; however, the following actions are recommended:

- All confinement manure must be contained between periods of land application. Properly manage all process wastewater and runoff from the feedlot to ensure that all solids are settled out and to prevent any water quality violations or discharges via a man-made conveyance. You are encouraged to conduct visual inspections of the facility perimeter and receiving stream following rainfall events to check for any possible discharges. You should also consider developing a contingency plan to handle chronic or excessive rainfall events.
- Notify the Iowa DNR of any manure release as soon as possible but not later than six hours after the onset or discovery. Contact Field Office 3 at 712-262-4177 during normal business hours, or for after hours spills, call the spill line at 515-725-8694.

IOWA DEPARTMENT OF NATURAL RESOURCES
AFO Desktop Assessment Form

Assessor:	Sheila Kenny			Assessment Date:	08/13/15	
Documentation Examined:						
<input checked="" type="checkbox"/> AFO Siting Atlas	<input checked="" type="checkbox"/> Facility File		<input checked="" type="checkbox"/> FOCD		<input checked="" type="checkbox"/> AFO Database	
<input checked="" type="checkbox"/> MMP	<input checked="" type="checkbox"/> Public Mapping Information <u>Google Maps</u>		<input type="checkbox"/> Other _____			
FACILITY LOCATION	FACILITY: Kooiker Brothers - Home				FACILITY ID#: 59078	
	ADDRESS: 3742 350th Street		CITY: Boyden		STATE: IA	ZIP: 51234
	PLSS: Section 9, Capel Township (T96N, R44W), Sioux County					
OWNER	NAME: Glen and Mark Kooiker					
	ADDRESS:		CITY:		STATE:	ZIP:
ANIMAL INFORMATION	ANIMAL TYPE(S)	CAPACITY	CURRENT HEAD	# OF PENS	# OF BUILDINGS	
	Beef Cattle - Finishing	700		2		
	Grow-Finish Hogs	2000			3	
FACILITY TYPE	<input type="checkbox"/> Confinement		<input type="checkbox"/> Open Lot		<input checked="" type="checkbox"/> Combined	
STORAGE TYPE	<input checked="" type="checkbox"/> Liquid		<input checked="" type="checkbox"/> Dry		<input checked="" type="checkbox"/> Covered	
STORAGE STRUCTURE TYPE	<input type="checkbox"/> Earthen Manure Storage Structure		#	<input type="checkbox"/> Anaerobic Lagoon		#
	<input checked="" type="checkbox"/> Below Building Pit		# 2 Shallow, 1-12' Deep	<input type="checkbox"/> Aerobic Lagoon		#
	<input checked="" type="checkbox"/> Outside Concrete Pit		# 1 - 30'x8'	<input checked="" type="checkbox"/> Outside Stockpile		#
	<input type="checkbox"/> Slurry-store		#	<input type="checkbox"/> Covered Stockpile		#
	<input type="checkbox"/> Unknown					
AFO/CAFO Status	<input type="checkbox"/> Large CAFO [†]		<input checked="" type="checkbox"/> Medium AFO		<input type="checkbox"/> Small AFO	
[†] All large CAFOs require an onsite inspection.						
NEAREST WATERCOURSE	Watercourse Name: Unnamed Tributary to the West Branch Floyd River					
	Distance between facility and nearest watercourse:		<input checked="" type="checkbox"/> < ¼ mile ^{††}		<input type="checkbox"/> > ¼ mile	
	Description of flow path(s) to watercourse: Northeast					
^{††} All medium combined or open lot AFOs within a ¼ mile of a watercourse and that drain towards that watercourse require an onsite inspection. All medium confinement AFOs that utilize uncovered manure/litter storage and are within a ¼ mile of a watercourse and that drain towards that watercourse require an onsite inspection.						
COMPLIANCE HISTORY	Has there been a discharge to a Water of the U.S. within the last 5 years?			<input type="checkbox"/> Yes ^{†††}		<input checked="" type="checkbox"/> No
	If yes, did the facility permanently remedy the cause of the discharge?			<input type="checkbox"/> Yes		<input type="checkbox"/> No <input type="checkbox"/> Unknown
	^{†††} All medium confinement AFOs that have discharged to water of the U.S. within the last 5 years require an onsite inspection.					
	Has there been a significant release within the last 5 years?			<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No
	If yes, did the release present a significant threat of discharge?			<input type="checkbox"/> Yes*		<input type="checkbox"/> No <input type="checkbox"/> Unknown
	* All medium confinement AFOs that have had a significant release in the last 5 years and the release presented a significant threat of discharging to a water of the U.S. require an onsite inspection.					
	Have there been any complaint investigations?			<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No
	If yes, describe:					
	Has an onsite inspection been conducted at this facility since 11/1/11?			<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No
	If yes, was the inspection functionally equivalent to facility type specific SOP (i.e., confinement, open feedlot or combined)?			<input type="checkbox"/> Yes**		<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Inspection Date:		Describe:				
** No onsite inspection is required if a functionally equivalent inspection has been performed since 11/1/11.						

RUNOFF ASSESSMENT	Is there evidence that manure, litter, or process wastewater is uncontrolled and/or unmanaged?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
	If yes, describe:			
	Are there tile intakes within 100 feet of the production area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Unknown
	If yes, describe:			
	Does the facility utilize uncovered/uncontrolled composting areas?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Unknown
	If yes, describe:			
<u>Note: If assessor answered "Yes" to any of the questions in this section, then an onsite inspection should be performed.</u>				
	Assessment Notes/Comments: Site is a medium sized combined facility. A long berm was installed along the creek to the east to help settle solids and prevent a discharge to a water of the state. Previous site visit in 2012 indicates that this site has the potential to discharge around the berm to the north during heavy rainfall or snowmelt. No evidence that runoff has made it to a water of the state, but an on-site inspection is recommended to check on facility capacity and controls. Kooiker Brothers also own the open lot facilities to the east and west of this site. The separation to the southwest site (ID #67606) is about 950' from the finisher barn and about 1325' from the open lot pens. The separation distance to the east site (ID #65030) is about 1950'.			
	<input checked="" type="checkbox"/> ONSITE INSPECTION REQUIRED.		<input type="checkbox"/> ONSITE INSPECTION <u>NOT</u> REQUIRED.	
AUTHENTICATION	INSPECTOR: Sheila Kenny <i>Sheila Kenny</i>	DATE: 08/13/15	REVIEWER: Cindy Martens <i>Cindy Martens</i>	DATE: 10-27-15
<u>Note: This assessment was based on the information available on the date of the assessment. Conditions at this facility could change.</u>				



Animal Feeding Operation (AFO) Regulatory Status

Facility Name: Kooiker Brothers - Home Facility ID: 59078 County: Sioux

- ☐ Large CAFO – Discharging – NPDES Permit Required
- ☐ Large CAFO – No discharge – No NPDES Permit Required
- ☐ Large CAFO – Has NPDES Permit
- ☐ Medium CAFO – NPDES Permit Required
- ☒ Medium AFO – No NPDES Required
- ☐ Medium AFO – Has NPDES Permit
- ☐ Designated CAFO – NPDES Permit Required
- ☐ Small AFO – No NPDES Permit Required

This determination was made based on conditions and observations made at the time of the inspection on August 28, 2015. Please note that the regulatory status of the facility can change if conditions at the facility change or are different from those documented during the inspection.

Inspector: Sheila Kenny Date: 8/28/15

Regulatory Definitions of Large CAFOs, Medium CAFOs, and Small CAFOs

These regulatory definitions are from the Code of Federal Regulations (CFR), implementing the federal Clean Water Act.

A **Large CAFO** confines at least the number of animals described in the table below.

A **Medium CAFO** falls within the size range in the table below and either:

- “(A) Pollutants are discharged into waters of the United States through a man-made ditch, flushing system, or other similar man-made device; or
- (B) Pollutants are discharged directly into waters of the United States which originate outside of and pass over, across, or through the facility or otherwise come into direct contact with the animals confined in the operation.” 40 CFR 122.23(b)(6)(ii)

If an operation is found to be a significant contributor of pollutants to waters of the United States, the permitting authority may designate a medium-sized facility as a CAFO as provided in 40 CFR 122.23(c).

A **Small CAFO** confines the number of animals listed in the table **and** has been designated as a CAFO by the permitting authority after determining that it is a significant contributor of pollutants to waters of the United States as provided in 40 CFR 122.23(c).

Animal Sector	Size Thresholds (number of animals)		
	Large CAFOs	Medium CAFOs	Small CAFOs
cattle or cow/calf pairs	1,000 or more	300 – 999	less than 300
mature dairy cattle	700 or more	200 – 699	less than 200
veal calves	1,000 or more	300 – 999	less than 300
swine (weighing over 55 pounds)	2,500 or more	750 – 2,499	less than 750
swine (weighing less than 55 pounds)	10,000 or more	3,000 – 9,999	less than 3,000
horses	500 or more	150 – 499	less than 150
sheep or lambs	10,000 or more	3,000 – 9,999	less than 3,000
turkeys	55,000 or more	16,500 – 54,999	less than 16,500
chickens other than laying hens (other than a liquid manure handling system)	125,000 or more	37,500 – 124,999	less than 37,500
laying hens (other than a liquid manure handling system)	82,000 or more	25,000 – 81,999	less than 25,000



IOV DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL SERVICES DIVISION



Field Office #1
909 W Main Ste 4
Manchester IA 52057
563-927-2640

Field Office #2
2300 15th St SW
Mason City IA 50401
641-424-4073

Field Office #3
1900 N Grand Ave
Spencer IA 51301
712-262-4177

Field Office #4
1401 Sunnyside Ln
Atlantic IA 50022
712-243-1934

Field Office #5
7900 Hickam Rd Ste 200
Windsor Heights IA 50324
515-725-0268

Field Office #6
1023 W Madison
Washington IA 52353
319-653-2135

Manure Management Plan Compliance Review – Nonsales of Manure

Site Visit Date Current: Last: 06/22/07	Number of Animals: 2000 G-F Hogs	Animal Units: 800	N-based <input type="checkbox"/> P-based <input checked="" type="checkbox"/>	Facility Location County: Sioux	Facility ID: 59078
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Facility Tier Status Pre-visit: <table style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>2</td><td>3</td></tr><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table> Post-visit: <table style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>2</td><td>3</td></tr><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>	1	2	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	2	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Violation(s) Comments -Soil samples for the W80 field taken in 2010. All fields were resampled in June 2015, but the results were not back yet. Once completed, must update the P-index values for all fields and maintain in records. No application allowed on W80 until completed. -Crop usage rates for P were updated October 2013. Please utilize the new values for next MMP update. The next full plan is due 6/1/17.
1	2	3																	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
1	2	3																	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	

Clerical Violation(s) ☐
Technical Violation(s) ☐

Facility Name Kooiker Brothers - Home **Person(s) Contacted** Glen Kooiker **Title** Owner

Facility Owner Information & Address Unchanged? Yes ☒ No ☐ (Database must be updated)

Address of Facility: 3742 350th Street, Boyden, IA

Do you own or operate any other animal feeding operation within 2,500 feet? ☒ Yes ☐ No

MMP Contents		Are requirements being met for the following items?		
		Yes	No	N.A.
a.	Calculations to determine land area for application [65.17(4)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b.	Total nitrogen and phosphorus available, credits, application losses [65.17(5)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c.	Optimum crop yield, crop usage rate, and soils maps [65.17(6)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d.	Manure application methods and timing of application [65.17(7)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e.	Location of manure application and landowner agreements [65.17(8)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f.	Estimate of annual animal production and amount of manure produced [65.17(9)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g.	Methods, structures, or practices to reduce soil loss and potential surface water pollution (conservation plans for highly erodible land) [65.17(10)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h.	Does P Index no. generated correspond with P Index no. in plan? [65.17(17)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i.	Are proper soil sampling methods being used to calculate P Index?[65.17(16)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

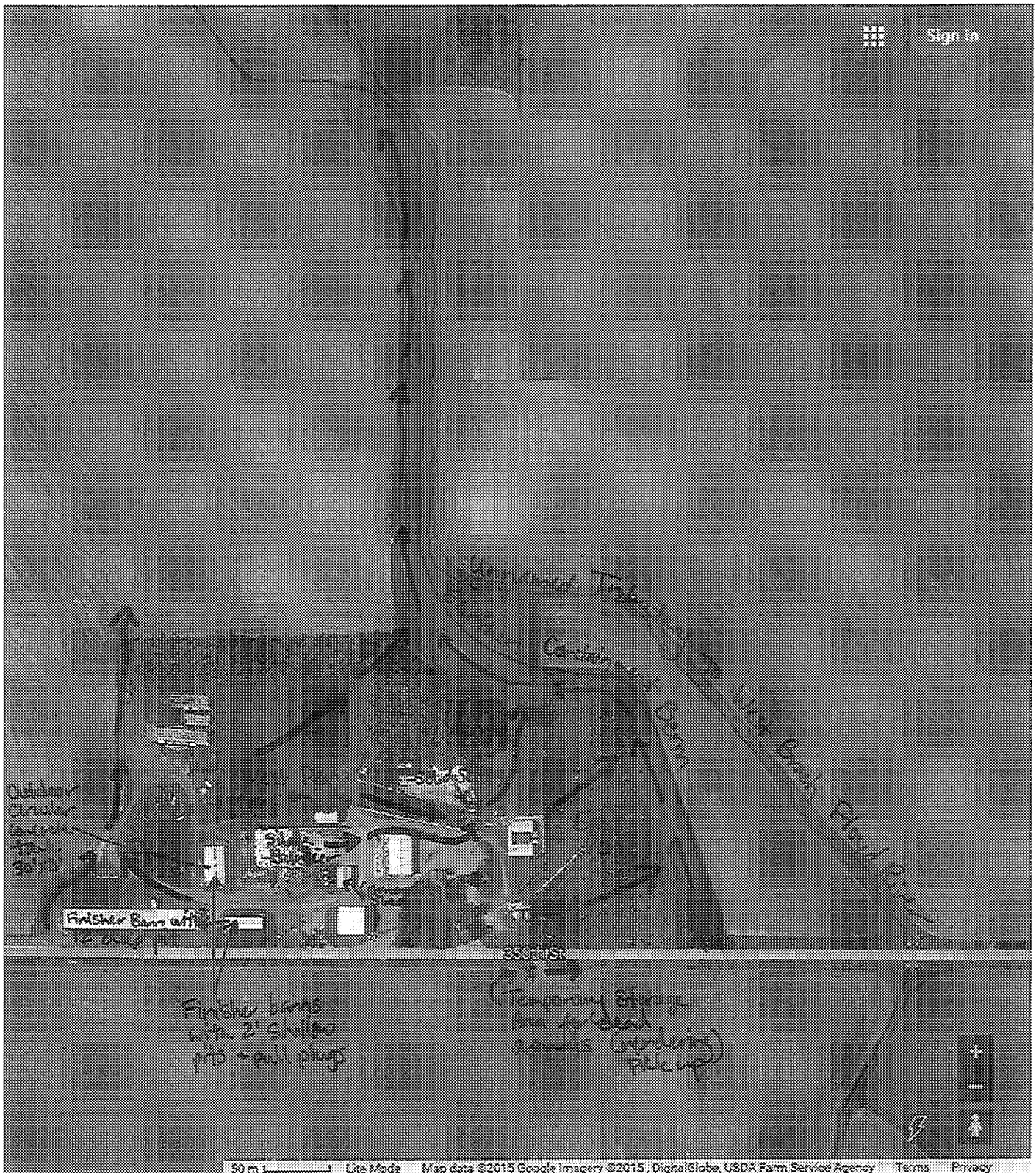
Records Review		Are requirements being met for the following items?		
		Yes	No	N.A.
j.	Copy of the current MMP [65.17(12)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k.	Records kept for 5* years (or crop rotation if longer) maintained [65.17(13)]? *10/25/06	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l.	Methods of application [65.17(13)a)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m.	Dates when manure was applied [65.17(13)b)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n.	Location of manure application and number of acres [65.17(13)c)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o.	Manure application rate [65.17(13)c)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p.	Statement of Intent for fields not owned or rented [65.17(13)e]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Field Observations of Manure Storage/Handling/Application & Animal Disposal		Are requirements being met for the following items?		
		Yes	No	N.A.
q.	Manure storage structures appear to be properly operated & maintained [65.2&65.15)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
r.	Dead animals disposed of properly [567 IAC 100.4(455B) & Code of Iowa 167.18)? Type: Compost <input type="checkbox"/> Incinerator <input type="checkbox"/> Burial <input type="checkbox"/> Rendering <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Discussion Items:		Were the following items discussed?		
		Yes	No	N.A.
s.	Manure release notification made within 6 hours [65.2(9)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
t.	Deficiencies, violations, and tier status?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
u.	Recommendations, improvements, environmental issues?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
v.	Manure applicator is certified [65.19]? Applicator name/number: <u>Dan DeWit - Flatland Farm - 1125CMS</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
w.	Proper manure application [65.3(2)-(3)]?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments -Site produces about 612,000 gallons of manure - all injected on C/C ground by CMS at a rate of about 4000 gal/ac
 -Primarily fall application, but occasional spring app may be done as well.
 -All ground in plan (494 ac.) is owned or rented, so no agreements or SOIs are required - plenty of ac. available for manure app.
 -Application records look good.

SPECIALIST NAME Sheila Kenny **ON-SITE CONTACT** Glen Kooiker **DATE** 08/28/15

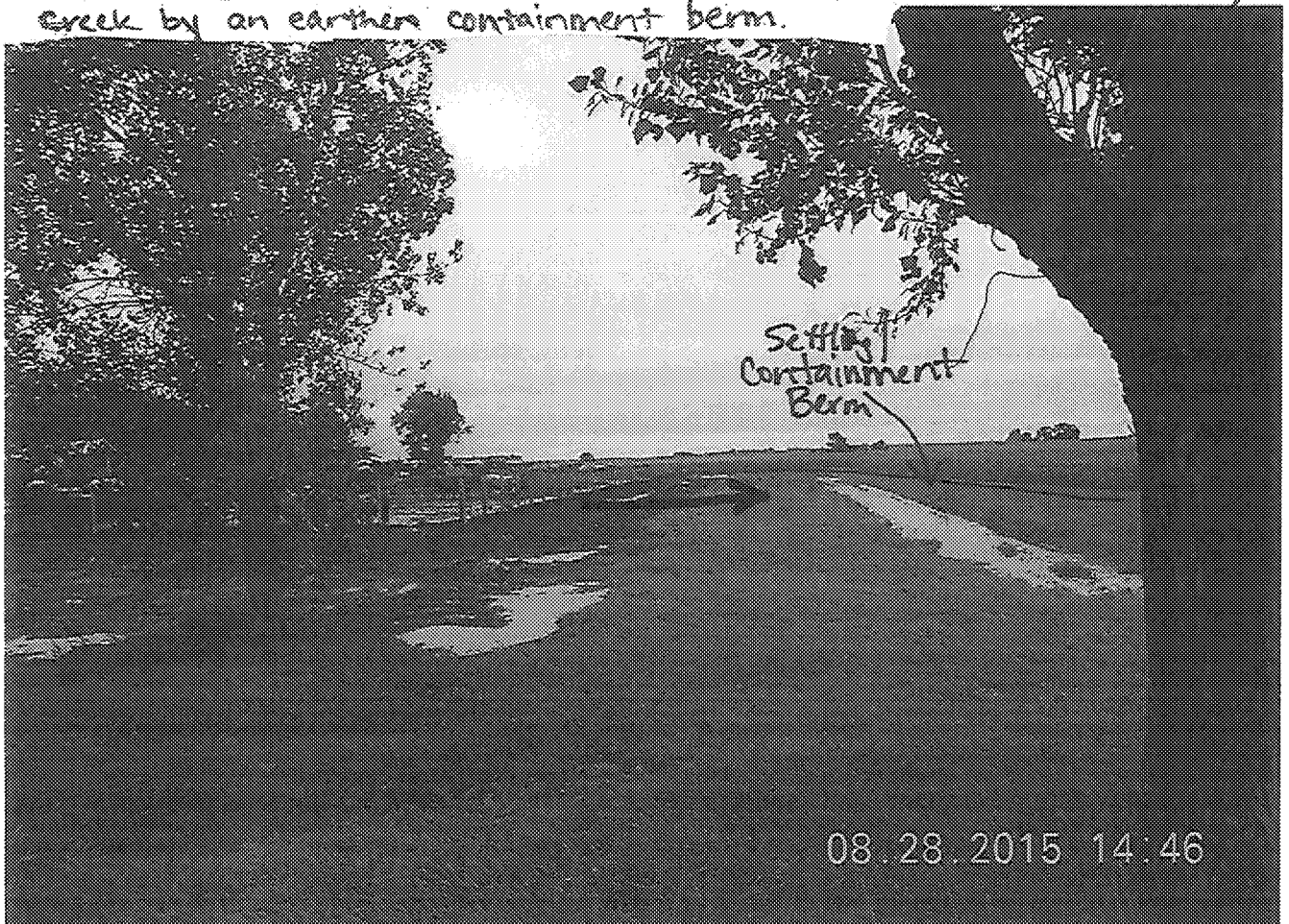


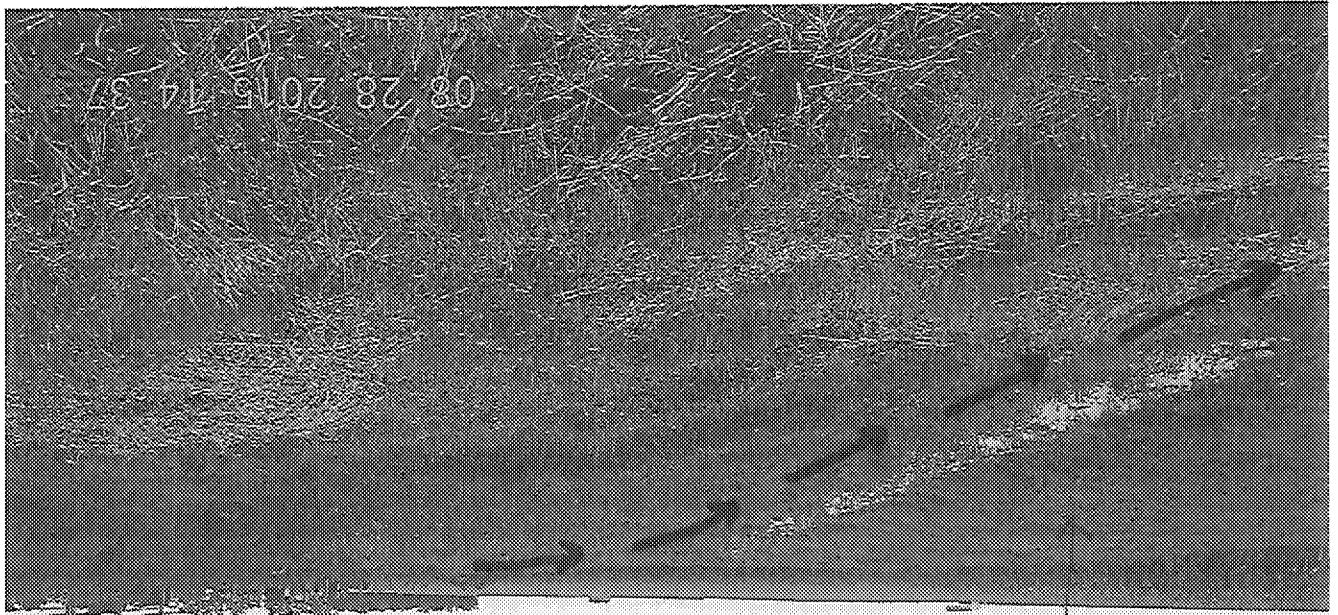
Aerial Photos of Kooiker Brothers, ID #59078





The east pen flows to the E/NE but is prevented from reaching the creek by an earthen containment berm.





Containment berm



The containment berm wraps along the east side of the
 Padlot and continues north along the creek
 for about 1/2 mile.

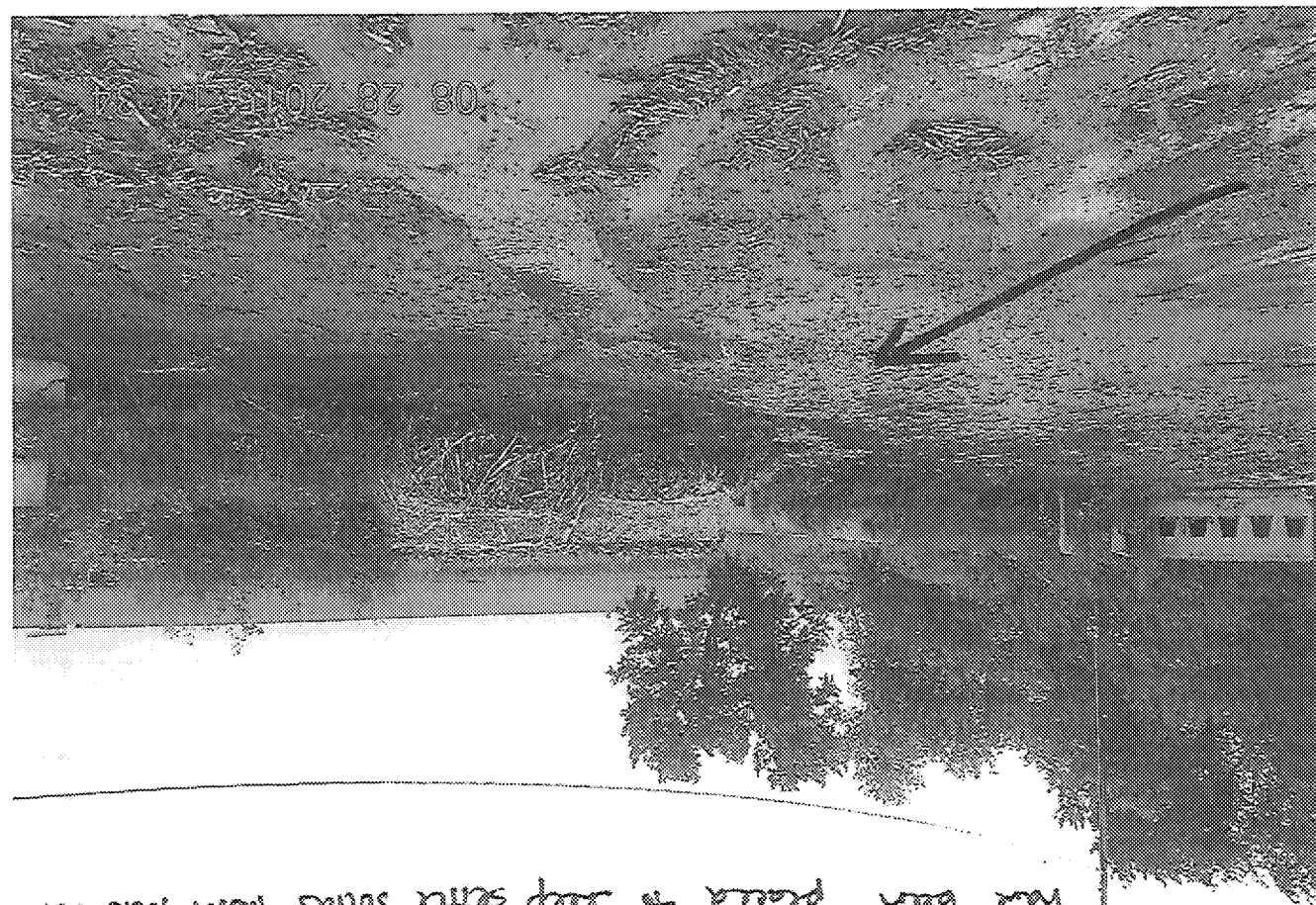




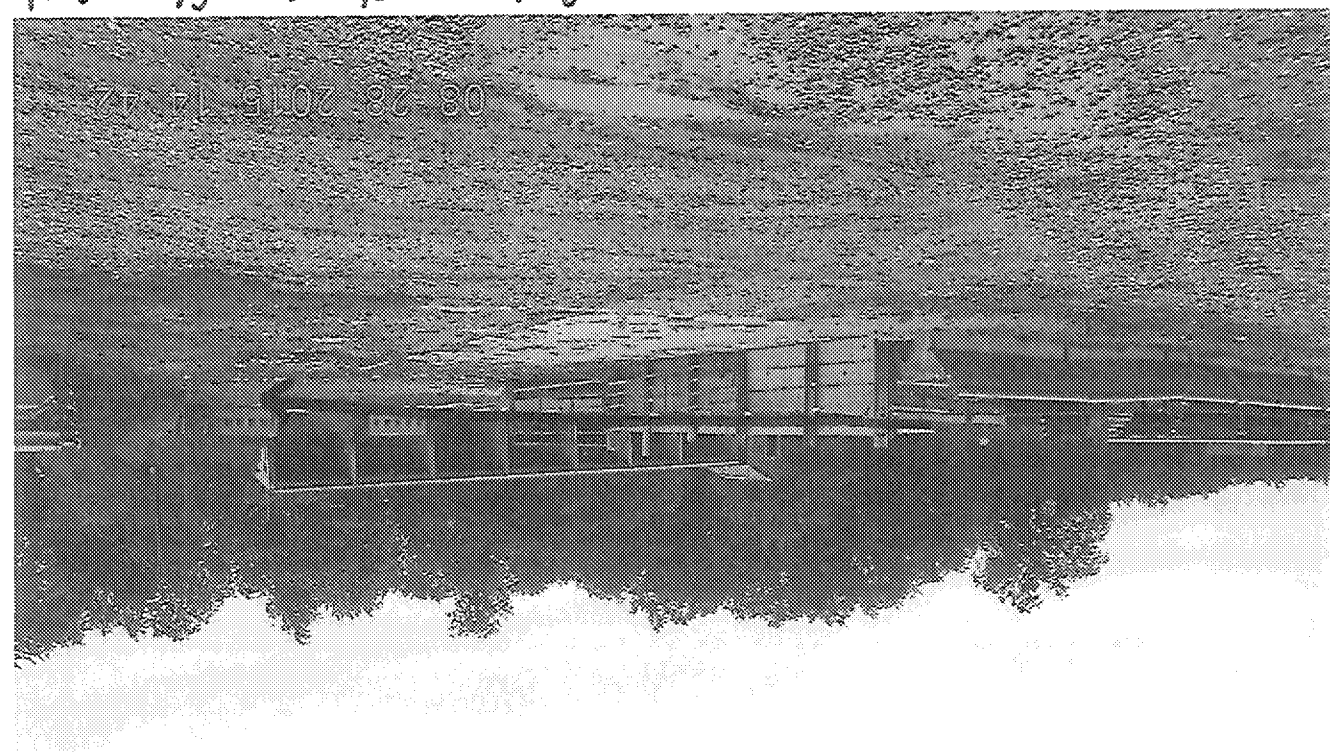
The flow from the west pen goes through the grove and joins the flow from the east pen in a grassy swale along the earthen containment berm.



The containment berm extends about 1/2 mile to the north, allowing all runoff to soak into the grassy area preventing a discharge to the creek.



Runoff from the eastern portion of the west pen flows east down the concrete. Some concrete slabs and round bales have been placed to help settle solids from this flow.

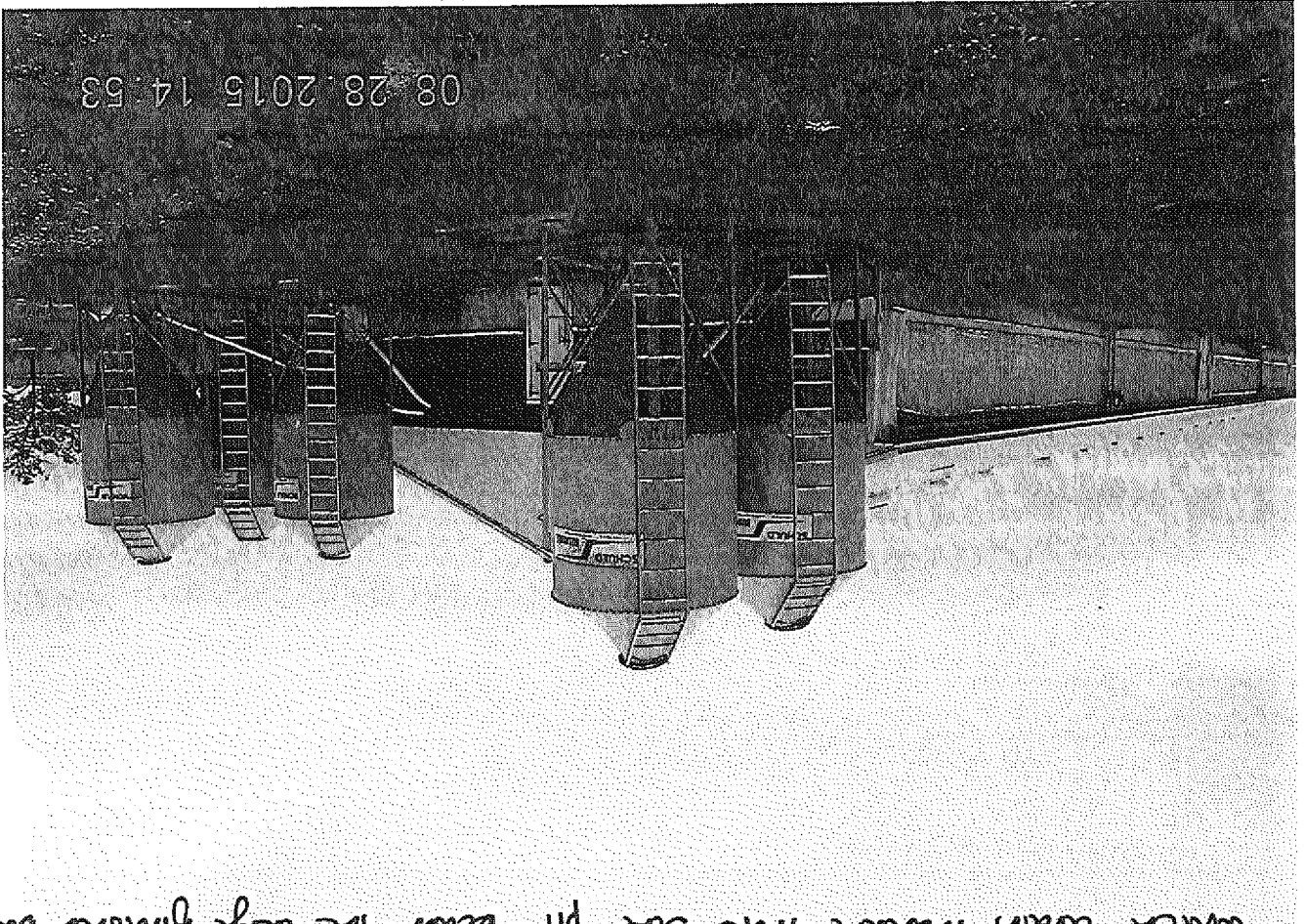




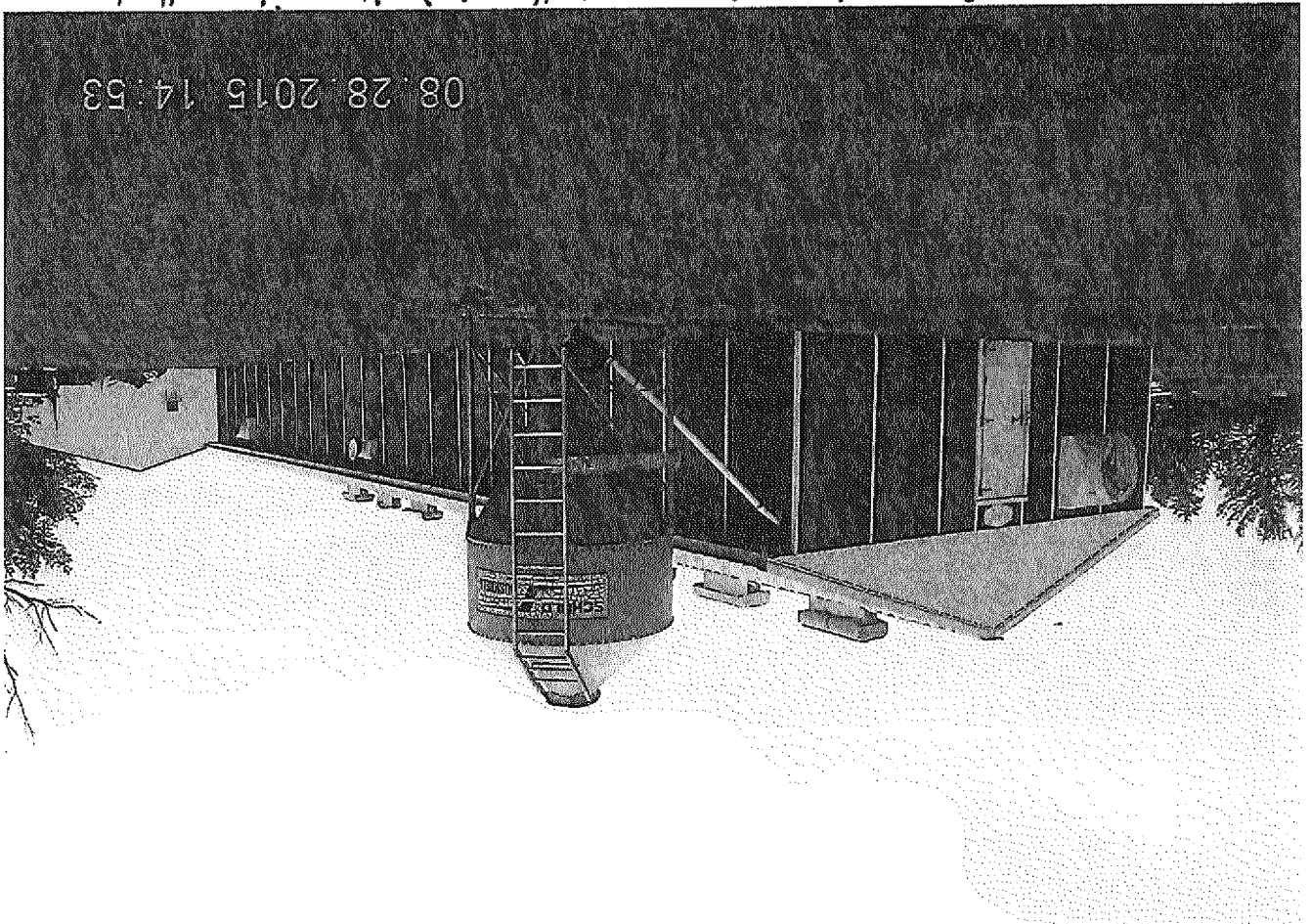
Feed for the open lot cattle is stored in a concrete bunker and a small covered commodity shed. Runoff from the feed storage area flows east around the west pen and then north into the grassy area along the containment berm.



The large finisher barn has a 12' deep pit for manure storage.



The small east finisher barn has a shallow (2') pit with pull plugs which drain manure into the pit below the large finisher barn.





The small north finisher barn has a shallow (2') pit with pull plugs that drain manure into an outdoor circular concrete tank.



Outdoor circular concrete tank measures about 30' diameter and 8' depth.



IOWA DEPARTMENT OF NATURAL RESOURCES
ENFORCEMENT CHECKLIST FOR AFO/CAFO INSPECTIONS

INSPECTION DESCRIPTION

Date of Inspection 8/28/15 1pm
Facility Name Kosilur Bros - Home Facility ID# 59078
Facility Address 3742 350th St. Boyden
Inspector's Name Sheila Kenny

INSPECTION FINDINGS

Narrative Description of Investigation (evidence of current violations; indicators of past violations; future concerns):
Combined facility inspection (open cattle lot and) with mmp inspection. Confined lago

- ☒ Photographs and/or Video
☐ Water Samples (upstream and downstream)
☒ Personal Interviews
☐ Other _____

ACTIONS FOLLOWING INSPECTION

- ☒ No further action taken – no violation(s) observed
☐ Informal Meeting Date _____
☐ Letter of Inquiry Date _____
☐ Letter of Noncompliance Date _____
(Within 30 days of confirmation of Violation)
☐ Notice of Violation Letter Date _____
(Within 30 days of confirmation of Violation)

REFERRAL/NON-REFERRAL

- ☐ Non Referral; No referral warranted. Explanation: _____

☐ Referral; based on the following criteria:

☐ Fish kill/acute water quality degradation
(Manure spills and/or discharges that result in destruction of aquatic life, including fish, are a top priority)

☐ Serious water quality degradation
(Release of pollutants may result in degradation of an aquatic resource without an obvious fish kill, but the effect may be impaired use and enjoyment of the water resource or chronic pollution harming aquatic life)

- ☐ Discharges of pollutants to state waters not authorized by an NPDES permit
(This priority would include discharges from open feedlots or confinements to waters of the state, not authorized under conditions of an NPDES permit issued by the DNR. An impact on water quality is documented)
- ☐ Failure to obtain required NPDES permit
(A large CAFO, medium CAFO, or designated CAFO is found to have any documented discharge without, or in violation, of an NPDES permit)
- ☐ Unauthorized construction
(Construction of AFO/CAFO structures (including open feedlots) without, or contrary to, a permit or other required documentation is also a DNR priority. Proper compliance with AFO siting and construction requirements is essential elements of the AFO program, which helps keep pollutants out of streams)
- ☐ Significant violations of NPDES permit and/or conditions in the permit
(Violations of a significant nature and/or repeated violations of operating or reporting requirements)
- ☐ Failure to submit MMP updates
(MMPs are the cornerstone of the animal feeding program. The MMP helps ensure that any proposed or current confinement feeding operation over 500 animal units has adequate land to use the manure nutrients it produces)
- ☐ Failure to obtain proper manure application certification
(The manure applicator certification program is an important component of the AFO regulations. The program ensures that manure is transported and applied properly)
- ☐ Other _____

Date of Referral to Legal _____